

INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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COUNTRY USSR (Moscow Oblast)

REPORT

SUBJECT 1. Internal Grinding Machine
Plant in Moscow
2. State Chemical Plant in
Shchelkovo

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SOURCE EVALUATIONS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE.

A four-page report on the Internal Grinding Machine Plant, 2 ulitsa Derbenevskaya, Moscow. According to the report this plant had no numerical designation. The plant manufactured internal grinders, thread chasers, and one-column paper perforators, and employed about 3000 persons. The report gives information on their working conditions and on details of operations. Attached are two sketches, showing the layout of the plant and the organization of its personnel.

Attachment 2: A three-page report on the State Chemical Plant in Shchelkovo (N 55-55, E 38-00), which among other things combined sulfuric acid and salt to produce a corrosive acid. The plant employed about 1000 workers, and was subordinate to the Ministry of Chemical Industry. The report gives further information on working conditions and details of operations. Attached are the sketches of the following: the layout of the plant, its organization, a tank car used by the plant, a tank truck used by the plant.

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1. The State Chemical Plant in Shchelkovo (N 55-55, E 38-00), known only as the Shchelkovskiy Gosudarstvennyy Khimicheskiy Zavod, was subordinate to the Ministry of Chemical Industry. It had no numerical designation. It was located in a deserted area in the so-called chemical plant quarter in the Shchelkovo rayon, about 20 to 25 kilometers northeast of Moscow. The site was near the Shchelkovo railroad station about 1,500 meters from the city proper. The plant consisted of five main buildings surrounded by a wooden fence about two meters high; the perimeter measured about 11,500 meters. All the buildings were about the same size and of brick construction with uralite roofing (refer to sketch No. 1 showing the plant layout, and legend for same on page 3);

2. The plant employed about 1,000 workers, an estimated two percent of whom were specialists. A three-shift, seven-hour daily work schedule was in effect, but the employees worked an extra hour per

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shift in order to work one day less per week. [redacted]

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[redacted] Employees were given 21 days vacation each year.

Plant employees and their families lived in two and three story buildings located about 200 meters from the plant.

3. A single track, Soviet wide-gauge railroad line entered the plant area and connected with a branch line from Monino (N 55-51, E 38-11); the latter, in turn, connected with the Moscow-Zagorsk railroad line. Raw materials, consisting of common salt and coal, were shipped in by rail from unspecified points in the USSR. The chemicals manufactured in the plant were transported via tank trucks (number and size unknown) and four railroad tank cars. The latter had a capacity of 50 tons each and both the carriage and tank were 25 meters long and 1.50 meters wide; the tank itself was 1.50 meters high and painted yellow, with the plant's name in black letters on both sides; beneath the name were the words "return immediately" (nemedlennyy vozvrat). (Refer to sketches, numbered 3 and 4, of the tank trucks and tank cars.) The plant's production was exactly geared to the demand, since no products were kept on the premises longer than 24 hours, no storage system was necessary. About twice a year the acids were piped directly from the production sections into the railroad tank cars.
4. The building designated as No. 5 (refer to sketch No. 1) was, like buildings numbered 1, 3 and 4, an acid section; located on the first floor of this two-story building was a pump which forced sulfuric acid (H_2SO_4) from a tank up to the second floor, where the acid and salt were processed in a furnace; during processing, the mixture was stirred constantly by power-driven blades. The resultant gaseous product was then put into special containers and dissolved in water (both gas and water were measured and weighed) to produce a corrosive acid which was harmful to the eyes; its fumes were injurious to the teeth. A total of 21 employees, seven on each shift, worked in this building.
5. The organizational set-up in the plant is shown in sketch No. 2. A 16-man guard unit, armed with 9 mm. caliber pistols, maintained security. The plant had no fire squad and utilized fire-fighting equipment from the city of Shchelkovo.
6. The following is the legend for sketch No. 1 showing layout of the State Chemical Plant in Shchelkovo.

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1. Acid Section
2. First Aid Station
3. Acid Section
4. Acid Section
5. Acid Section. This was a two-story, fireproof brick structure about 40 x 25 meters in size. On the first floor were an unrefined common salt dump and a pump and, on the second, a furnace.
6. Laboratory, which was located in building designated as No. 5 above.
7. This section was part of building No. 8 and was always kept closed for reasons unknown
8. Building in which Paris green (myshyak) reportedly was made.
9. Platform scale of unknown capacity.
10. Loading platform which was also used for temporary storage of bottled acids.
11. Sentry box alongside the entrance gate; a guard on duty in the sentry box checked all persons entering and leaving the plant.

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The circles, identified by the letters, a, b, c and d, indicate the locations of smokestacks, about 25 meters high and with a base approximately 10 meters in circumference.

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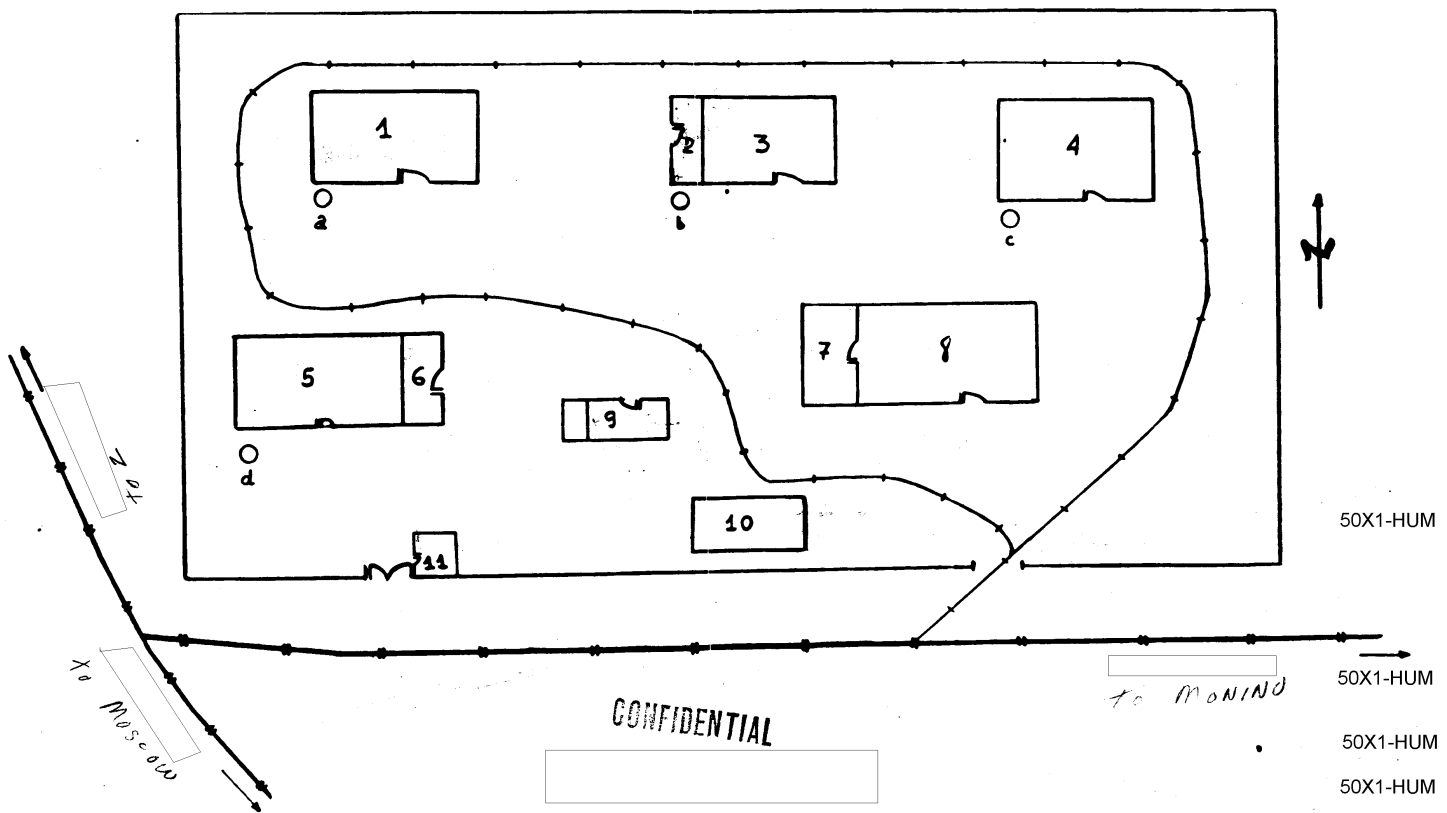
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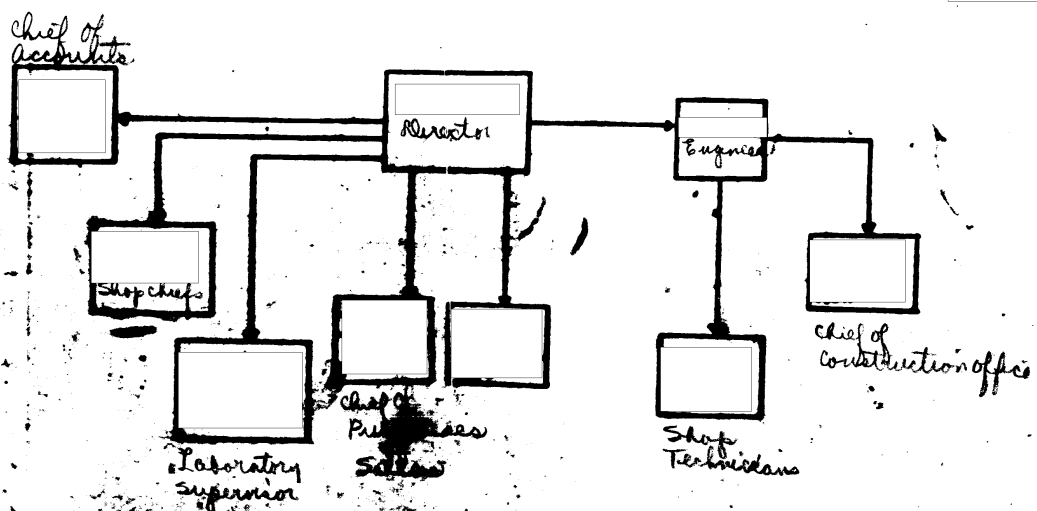
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Sketch of the ^{new} chemical products plant of SACI



Organizational Chart of the State Chemical Plant in Sverdlovsk
Attachment



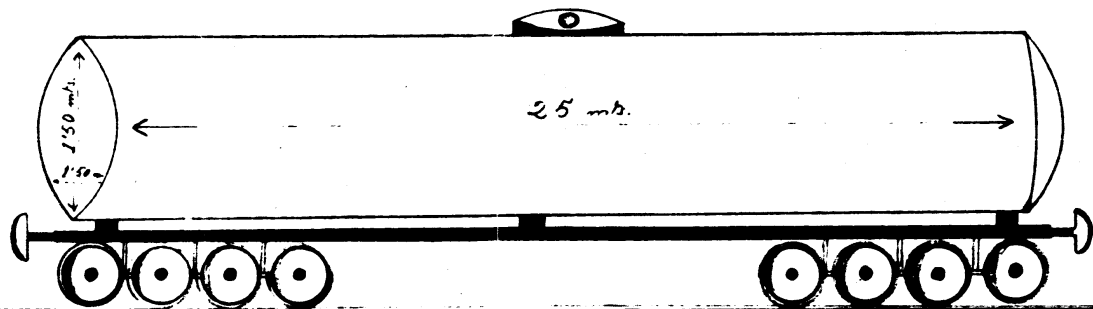
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Sketch No 3

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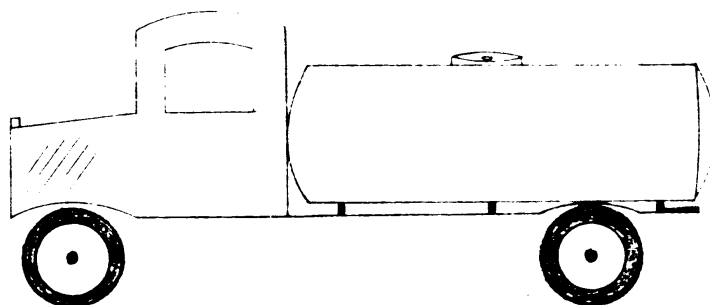


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Sketch of truck



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1. The Internal Grinding Machine Plant (Zavod Vnutri Shlifovanih Stankiy--
ZVSS), located on Derbenevskaya ulitsa 2 in the Korovsky rayon, Moscow,
was ^{under} ~~a branch~~ of the Ministry of the Machine-Tool Industry; it was not
known by any other name and had no numerical designation. The plant
manufactured "Cincinnati"-type internal grinders (with and without
centers), "Linder"-type thread chasers and "Linder"-type one-column
paper perforators; the latter were described as being one and a half
meters long, two meters wide, three meters high, and weighing one and
a half tons. The plant consisted of 19 buildings -- most of them obsolete

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brick structures and many without roofs -- surrounded by a two-meter-high wooden fence (refer to sketch No. 1). The personnel entrance was located on Derbenevskaya ulitsa.

2. [redacted] the water supply system [redacted] was normal. [redacted] 220-volt 50X1-HUM
- current was used for operating machinery and 170-volt current for lighting purposes. A Soviet wide-gauge, single-track railroad line, a branch of the Moscow-Pobelskaya line, entered the plant and most of the fuel and raw materials (steel, sheet metal, ingots, copper, silver and bronze) were shipped in via rail. A few four-ton trucks were also occasionally used for transport.
3. The plant employed about 3,000 persons of both sexes, 40 per cent of whom were skilled workers; it usually operated on an eight-hour, one-shift schedule six days a week, although some shops (not identified) worked two shifts. Employees in the technical and administrative sections were given 12 to 24 days leave each year and specialists, 12 to 30 days. Salaries ranged from 800 to 3,000 rubles a month, depending on the worker's category. The organizational setup in the plant is shown in sketch No. 2.
4. Finished parts were generally checked by means of optical and mechanical devices. Items for shipment were packed in wooden boxes bearing the plant's initials, a picture of a glass goblet to indicate fragility of the contents, and the words "don't tilt" (nie kantabat).

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5. Twenty male guards armed with pistols maintained security; two were always on duty at the personnel entrance to check employees' passes and, at night, the sentries who patrolled the plant area were accompanied by dogs. Once in the plant, employees were permitted to move about freely.

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6. It was rumored that the Ministry of the Machine-Tool Industry wanted to move the plant to another location

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7. The following is the legend for Sketch No. 1, showing the layout of the Internal Grinding Machine Plant:

- (1) Foundry, containing an unknown number of ten-ton capacity furnaces.

This was a one-story brick building with a uralite roof.

- (2) A one-story brick structure housing a workshop where special machines were assembled and tuned up; the machines were described as

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two-column perforators with three headstocks. These machines were not mass-produced. This shop employed about 250 to 300 workers.

- (3) Warehouse. This was a frame building with brick walls.

- (4) Freight shed where rail shipments were loaded, unloaded and sorted.

- (5) An old one-story shop building (no details known).

- (6) An old two-story building housing a library, recreation room and a carpentry shop.

- (7) First aid clinic. This was an old brick and frame structure.

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- (8) A one-story frame structure housing a forge and the stamping section where sheet metal was worked.
- (9) Laboratory. This was a new, one-story, tile-roofed brick structure.
- (10) An old one-story structure. [redacted] four or five optics specialists were employed in this shop to adjust used equipment.
- (11) A one-story building containing a shop where wooden molds were made for the foundry.
- (12) This building was an extension of No. 11. Wooden molds and ordinary bolts, nuts, pegs and similar items were made in this shop.
- (13) Grinder machine assembly shop. This was a tile-roofed fireproof brick building.
- (14) Planning and control section. This was an old one-story building.
- (15) An old two-story building containing a tool shop and an assembly shop; in the latter, paper perforators were assembled.
- (16) A one-story building housing a fire station, garage and small storage rooms.
- (17) An old two-story building containing machine shops; the heavy machinery and vertical lathes were worked in the shop located on the first floor.
- (18) A one-story building housing the pass-issuing office
- (19) Planning offices (no description of building given). About 50 persons, including a production chief, six to ten foremen, draftsmen and clerks were employed in these offices.

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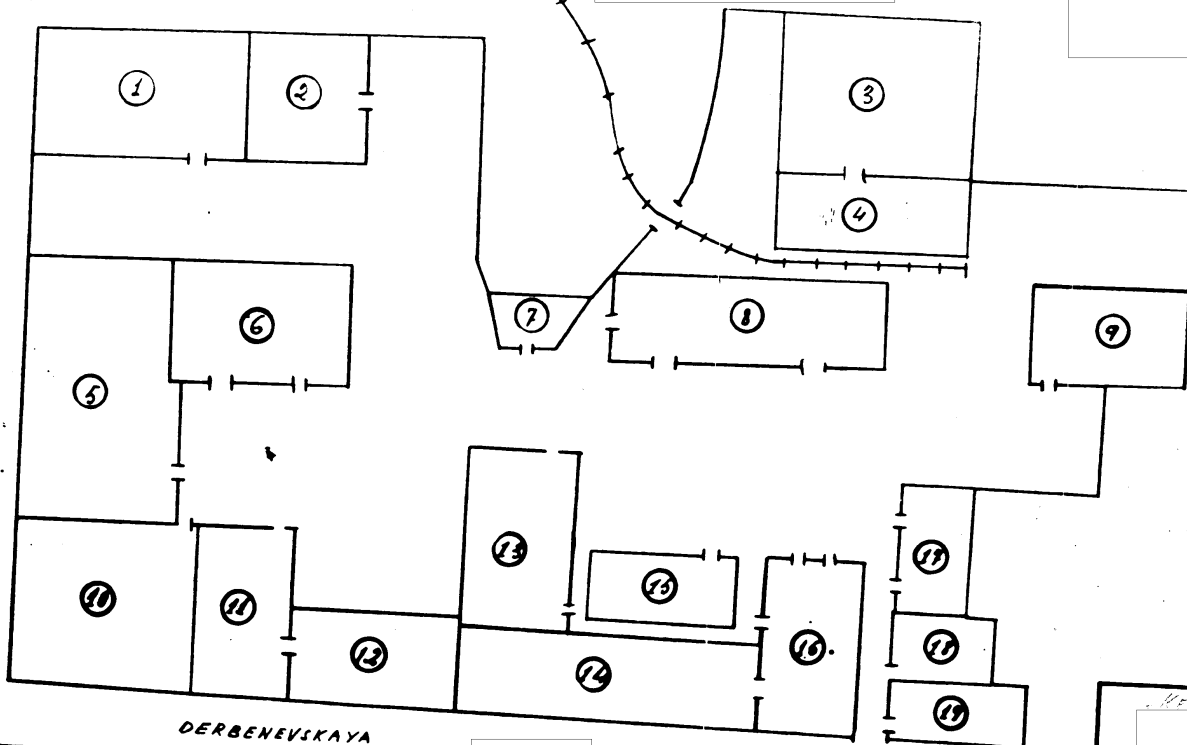
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Attachment I

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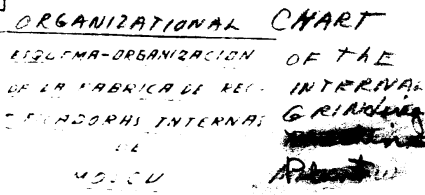
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GRINDERS PLANT
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